



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Zheng, et al.

Serial No.: 09/614,407

Confirmation No.: 1903

Filed:

July 12, 2000

For:

METHOD OF APPLICATION OF

**ELECTRICAL BIASING TO ENHANCE METAL DEPOSITION** 

MAIL STOP RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Group Art Unit: 1753 RECEIVED

JUL 0 1 2004

TC 1700

Examiner:

Brian Mutschler

**CERTIFICATE UNDER 37 CFR 1.10** 

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited on 2004 with the United States Postal Service in an 2004 with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee," mailing label No. **EV509287242US** addressed to: Box RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

6/24/04

Date

### INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/4471.Y3/NAN.

Respectfully submitted,

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Attorney for Applicant(s)

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**B3** 

WO 99/25904

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	09/614,407
Filing Date	JULY 12, 2000
First Named Inventor	ZHENG, ET AL.
Group Art Unit	1753
Examiner Name	BRIAN MUTSCHLER
Attorney Docket Number	AMAT/4471.Y3/CMP/ECP/RKK
Submission Date	(0)24/104

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Examiner Initials*	Cite No.1	Document Number		blication Date		Name of Patentee or	Pages, Columns, Lines, Who Relevant Passages or Relev	
		Number-Kind Code <sup>2 (if known)</sup>	M	IM-DD-YYYY	,	Applicant of Cited Document	Figures Appear	
	A1	US-2,742,413	04/	17/1956	CR	ANSBERG, ET AL.		
	A2	US-2,882,209	04/	14/1959	BR	NWC	DECENIER.	`
	А3	US-3,627,661	02/	13/1969	GO	RDON, ET AL.	RECEIVED	,
	A4	US-3,649,509	03/	14/1972	МС	RAWETZ, ET AL.	JUL 0 1 2004	
	A5	US-3,727,620	04/	17/1973	OR	R		
	A6	US-4,027,686	06/	07/1977	SH	ORTES, ET AL.	IC 1700	
-	A7	US-4,065,374	12/	27/1977	AS	AMI, ET AL.		
	A8	US-4,092,176	05/	30/1978	ко	ZAI, ET AL.		
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Examiner	Cite	Foreign Patent Document		Publication E	Date	Name of Patentee or	Pages, Columns, Lines,	T
Initials*	No. <sup>1</sup>	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if kn	own)	MM-DD-YYYY		Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
	B1	WO 99/54527		10/28/1999		APPLIED MATERIALS, INC.		
	B2	WO 99/26275		05/27/1999		NOVELLUS SYSTEMS, INC.		
		WO 00/05004		05/07/4000		NOVELLUO OVOTENO INO		<del> </del>

Examiner Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional), a See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2. 283459\_1

NOVELLUS SYSTEMS, INC.

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## INFORMATION DISCLOSURE STATEMENT BY APPERENT

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Group Art Unit 1753

Examiner Name BRIAN MUTSCHLER

Attorney Docket Number AMAT/447,1.Y3/CMP/ECP/RKK

Submission Date

Application Number

First Named Inventor

Filing Date

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09/614,407

JULY 12, 2000

ZHENG, ET AL.

Examiner Initials*	Cite No.1	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant
muais	INO.	Number-Kind Code <sup>2 (if known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Figures Appear
	A23	US-4,789,445	12/06/1988	GOFFMAN, ET AL.	
	A24	US-4,869,971	09-26-1989	NEE, ET AL.	
	A25	US-5,055,425	10/08/1991	LEIBOVITZ, ET AL.	RECEIVED
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#### **FOREIGN PATENT DOCUMENTS**

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	B4	WO 99/25903	05/27/1999	NOVELLUS SYSTEMS, INC.		
	B5	WO 99/25902	05/27/1999	NOVELLUS SYSTEMS, INC.		
	В6	DE 932 709 W/ENG. ABSTRACT	09/08/1955	W KAMPSCHULTE & CIE SOLINGEN D		
	B7	JP 61-7291 W/ENG. ABSTRACT	01/13/1986	MITSUBISHI KASEI KOGYO KK		
	B8	JP 52-56369 W/ENG. ABSTRACT	05/09/1977	SHIOSHIMA MASARU; MUTOU HACHIROU		
	В9	SU 443108 NO ENG. ABSTRACT	09/15/1974	UNKNOWN .		

Examiner

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	09/614,407	١
Filing Date	JULY 12, 2000	
First Named Inventor	ZHENG, ET AL.	
Group Art Unit	1753	-
Examiner Name	BRIAN MUTSCHLER	-
Attorney Docket Number	AMAT/4471.Y3/CMP/ECP/RKK	

Submission Date 6/24/04

			U.S.	<b>PATENT</b>	DO	CUMENTS	·	
Examiner Initials*	Cite No.1	Document Number	Publ	ication Date		Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevan	
initiais"	INO.	Number-Kind Code <sup>2 (if known)</sup>	MM	-DD-YYYY		Applicant of Cited Document	Figures Appear	п
	A41	US-5,377,708	01/03	3/1995	BEI	RGMAN, ET AL.		
	A42	US-5,415,890	05/16	6/1995	KLC	DIBER, ET AL.		
	A43	US-5,447,615	09/05	5/1995	ISH	IDA	RECEIVED	$\overline{m{)}}$
	A44	US-5,454,930	10/03	3/1995	MIL	JRA, ET AL.	1111 0 4 2004	
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	A58	US-6,133,061	09/05	5/2000	LANDAU, ET AL.			
	A59	US-6,162,344	12/19	9/2000	RE	D, ET AL.		
	A60	US-6,174,425	01/16	5/2001	SIN	IPSON, ET AL.		
	A61	US-6,203,582	03/20	0/2001	BEI	RNER, ET AL.		
	A62	US-6,254,760	07/03	3/2001	SH	EN, ET AL.		
	A63	US-6,258,220	07/10	0/2001	DO	RDI, ET AL.		
	A64	US-6,261,433	07/17	7/2001	LAN	NDAU		
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Examiner	Cite	Foreign Patent Document	. [	Publication D	ate	Name of Patentee or	1 -3,,,	T
Initials*	No. <sup>1</sup>	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if kn	own)	MM-DD-YY		Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
	B10	JP 4-141395 W/ENG. ABSTRAC	T	05/14/1992		SHOJI KATSUYUKI		

Examiner Date Considered

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JUN 2 4 2004 (C)

# INFORMATION DISCLOSURE STATEMENT BY APPLICATION

(Use as many sheets as necessary)

Application Number 09/614,407

Filing Date JULY 12, 2000

First Named Inventor ZHENG, ET AL.

Group Art Unit 1753

Examiner Name BRIAN MUTSCHLER

Attorney Docket Number AMAT/4471,Y3/QMP/ECP/RKK

Sheet 4 of 5 Submission Date (0)2413

			U.S	. PATENT	DO	CUMENTS		
Examiner	Cite	Document Number	Put	olication Date		Name of Patentee or	Pages, Columns, Lines, Whe	
Initials*	No. <sup>1</sup>	Number-Kind Code <sup>2 (if known)</sup>		MM-DD-YYYY		Applicant of Cited Document	Relevant Passages or Relevar Figures Appear	
	A65	US-6,261,733	05/0	08/2001	KU	ST, ET AL.		
<del></del>	A66	US-6,267,853	07/3	31, 2001	DO	RDI, ET AL.		
·	A67	US-6,340,633	01/2	22/2002	LOF	PATIN, ET AL.	RECEIVED	
	A68	US-6,344,419	02/0	05/2002	FOI	RSTER, ET AL.		
-	A69	US-6,350,366	02/2	26/2002	LAN	IDAU, ET AL.	JUL 0 1 2004	
	A70	US-6,391,166	05/2	21/2002	WA	NG	TC 1700	
-	A71	US-6,395,101	05/2	28/2002	SCI	RANTON, ET AL.	10 1700	
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	A80	US-6,565,729	05/2	20/2003	CHEN, ET AL OLGADO, ET AL. DORDI, ET AL.			
	A81	US-6,571,657	06/0	03/2003				
	A82	US-6,582,578	06/2	24/2003				
	A83	US-6,585,876	07/0	01/2003	DO	RDI, ET AL.		
	A84	US-6,632,345	10/	14/2003	СНІ	EN		
	A85	US-6,638,410	10/2	28/2003	СНІ	EN, ET AL		
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	A85			31/2002	HE,	Y, ET AL.		
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Examiner	Cite	Foreign Patent Document		Publication D	)ate	Name of Patentee or	Pages, Columns, Lines,	
Initials*	No.1	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if kn	own)	MM-DD-YYY		Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
	B11	EP 1 160 846		12/05/2001		APPLIED MATERIALS, INC.		

## B12 WO 01/90446 11/19/2001 APPLIED MATERIALS, INC.

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	INFO	RMATIC	N DÂS	LOS	SURE	First Named Inventor	ZHENG, ET AL.
	STAT	RMATIC TEMENT	BY AP	PER	ÄNT	Group Art Unit	1753
						Examiner Name	BRIAN MUTSCHLER
		(Use as many	sheets as ne	cessary,	)	Attorney Docket Number	AMAT/447/1.Y3/CMP/ECP/RKK
	Sheet	5		of	5	Submission Date	HILLE

Shee	et   5	or 5 Submission Date Q109107	
		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		OLGADO, ET AL., Application Entitled "Stable Cell Platform," filed September 29, 2000; U.S. Serial No. 09/676,362 (AMAT/2601.P4).	
		GANDIKOTA, ET AL., Application Entitled "Electrochemical Deposition for High Aspect Ratio Structures Using Electrical Pulse Modulation", filed May 11, 2000, U.S. Serial No. 09/569,833 (AMAT/3864).	
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		COLOMBO, "Wafer Back Surface Film Removal," Central R&D, SGS-THOMSON Microelectronics, Agate Italy	
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		JUL 0 1 2004	
		TC 1700	
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